

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:		OIL WELL ☒		GAS WELL ☐		DRY ☐		Other ☒ Temp P&A											
b. TYPE OF COMPLETION:		NEW WELL ☒		WORK OVER ☐		DEEP-EN ☐		PLUG BACK ☐		DIFF. RESVR. ☐		Other ☐							
2. NAME OF OPERATOR Mobil Oil Corporation																			
3. ADDRESS OF OPERATOR P. O. Box 633, Midland, Texas 79701																			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 860' FNL & 660' FWL of Section 20, Unit "D" At top prod. interval reported below At total depth																			
14. PERMIT NO. _____ DATE ISSUED _____																			
15. DATE SPUDDED 6-1-1966-6P.M.				16. DATE T.D. REACHED 6-16-1966				17. DATE COMPL. (Ready to prod.) 9-1-1966 (P&A)				18. ELEVATIONS (DF, RKE, RT, GR, ETC.)* 4210 Gr.				19. ELEV. CASINGHEAD			
20. TOTAL DEPTH, MD & TVD 4820				21. PLUG, BACK T.D., MD & TVD 4782				22. IF MULTIPLE COMPL., HOW MANY*				23. INTERVALS DRILLED BY →				ROTARY TOOLS X		CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4599-4669 San Andres														25. WAS DIRECTIONAL SURVEY MADE yes					
26. TYPE ELECTRIC AND OTHER LOGS RUN PGAC Acoustic- Gamma Ray Log, Laterolog Survey														27. WAS WELL CORED no					
28. CASING RECORD (Report all strings set in well)																			
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD				AMOUNT PULLED							
8-5/8"		24#		361'		12 1/4"		300 ex Incon Neat-circ.				None							
4 1/2"		9.5#		4820		7-7/8"		250 ex Incon Neat-circ.				None							
29. LINER RECORD														30. TUBING RECORD					
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		SIZE		DEPTH SET (MD)		PACKER SET (MD)					
None										2-3/8"		4777		None					
31. PERFORATION RECORD (Interval, size and number) SEE ATTACHMENT I														32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED SEE ATTACHMENT II					
33.* PRODUCTION																			
DATE FIRST PRODUCTION - - -				PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) - - -								WELL STATUS (Producing or shut-in) Temp. P&A							
DATE OF TEST - - -		HOURS TESTED - - -		CHOKE SIZE - - -		PROD'N. FOR TEST PERIOD →		OIL—BBL. - - -		GAS—MCF. - - -		WATER—BBL. - - -		GAS-OIL RATIO - - -					
FLOW. TUBING PRESS. - - -		CASING PRESSURE - - -		CALCULATED 24-HOUR RATE →		OIL—BBL. - - -		GAS—MCF. - - -		WATER—BBL. - - -		OIL GRAVITY-API (CORR.) - - -							
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) - - - - -														TEST WITNESSED BY					
35. LIST OF ATTACHMENTS Attachment I and II; Logs 6; Summary of Operation; Deviation Survey Record.																			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																			
SIGNED F. A. Payne		TITLE Authorized Agent																	
														DATE 9/13/1966					
*(See Instructions and Spaces for Additional Data on Reverse Side)																			

INSTRUCTIONS

99.11.1

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Red Bed Ashy & Salt Red Bed & Ashy. Ashy & gyp Lime Dolomite	0 2041 2504 3615 3814 4568	2041 2504 3615 3814 4568 4820		Rustler Yates Queen San Andres "A" Marker	2230 2704 3415 3927 4632	

ATTACHMENT I

11.6

11.6 11.66

Line 31 Perforating Record:

San Andres - 4599, 4602, 03, 05, 07, 13, 15, 18, 29, 37, 39, 41, 59,
90, 92, 94, 96, 98, 4703, 05, 09, 15, 19, 21, & 23
W/1 JSP/Interval Squeezed.

San Andres - 4623, 44, 50, 65, 69 W/1 JSP/Interval.

San Andres - 4693, 95, 97, 4704, 19, 21 & 23 W/1 JSP/Interval
Total 7 holes.

ATTACHMENT II

11 11 86

Line 32 - Acid, Shot, Fracture, Cement Squeeze, Etc.

<u>Depth Interval</u>	<u>Amount and Kind of Material Used</u>
4599-4723	6500 gallons 15% - 60 RCN Ball Sealers
4599-4723	Squeezed w/75 Sx Trinity, Inferno.
4599-4669	500 gallons 15% Neat
4622-4669	7500 gallons Jack Frac + 7500# Ottawa Sand + 15 RCN Ball Sealers - Communicated w/Upper Perfs.
4599-4669	900 Sax TIN Cement
4693-4723	1000 gallons Stabilized 15% Unisol
4693-4723	5000 gallons El Paso Refined Oil and 10,000# 20/40 Ottawa Sand

J.C.

JUN 21 1966

SUMMARY OF OPERATION

MOBIL OIL CORPORATION
JACOBS FEDERAL, WELL #13
ROOSEVELT COUNTY, NEW MEXICO

DATE	DESCRIPTION
6- 3	Location complete. WO Rig - Cactus Drlg. Co.
6- 7	MIT Cactus Drilling Co.
6- 8	361' ND red bed, WOC on 361' of 8-5/8" csg, 11" hole, 3/4" @ 361, ran 361' of 8-5/8" 24# used csg, cemented on bottom @361 by Howco w/300 sx incore neet w/2% CaCl, plug down @ 4:30 am 6-8-66. Cement circ. Cactus Drilling Co. spudded in @ 6:00 pm 6-7-66.
6- 9	(2) 986' drlg red bed, 7-7/8" hole, 3/4" 864, fresh water, WOC total 12 hrs, tested 8-5/8" csg & BOP w/800# 30 min/ok, down 4 hrs for rig repair.
6-14	(7) 4497 drlg dolo, 7-7/8" hole, 3/4" 4497, prep to mud up.
6-17	(10) 4820 TD, dolo. 7-7/8" hole. 1/2" @ 4820. 10.7-39-9.8, 8% oil. PGAC running OH logs past 8 hrs. PGAC ran GR-acoustic 0 - 4820, Lateral log 360=4820. Now running Microlog.
6-18	(11) 4820 TD. WOC - 4 1/2 csg. Finished running OH log 2 hrs ran bit to bottom, circ 2 hrs, layed down DP & collars, ran 4820' of 4 1/2 OD 9.5# J-55 ST&C 8 rd csg, cemented on bottom by Howco w/250 sx Incor Neet cement w/8# salt per sx - Plug down 6:00 p.m. 6-17-66. Calculated top of cement @ 3177, nipple up 4 1/2 csg. Released Cactus Drlg Co rig @ 8:30 p.m. 6-17-66. WOC.
6-20	Cactus Drlg Co. MORT. WOC total 38 hrs. Prep to complete.
6-21	MIRU D&J Well Serv Unit, install wellhead, ran 2-3/8 tbg to 4777, displace wtr w/oil, swab 68 BLO in 4 1/2 hrs, pull tbg. SD for night. Prep to run corr log and perforate.
6-22	Lane Wells ran GR-Collar-Corr log from 4180 to 4782, equal PBTD, then perforated 4 1/2 csg in the San Andres @ 4599, 4602, 03, 05, 07, 13, 15, 18, 29, 37, 39, 41, 57, 59, 90, 92, 94, 96, 98, 4703, 05,09, 15, 19, 21 & 23 w/ 1 JSP/interval, total 26 holes. Ran 2-3/8 tbg to 4727 w/Guiberson KTOP pkr set @ 4534, swab 1 1/2 hrs, hole dry, Cardinal Chemical Co load csg w/ lease oil then spotted 3 bbls Unisol acid over perforation, reset pkr @ 4356, tbg 4541, then acidized perfs w/ 1500 gal of 15% Stabilized Unisol acid using 30 RCN ball sealers, TTP 3000# to 3900#. CP 500-300#, rate 3.13 PM. ISIP 2100# 5 min SIP 2100#. Job complete @ 3:15 p.m. 6-21-66. Then swab 30 BLO + 36 BAW + 9 BSW in 11 hrs. 200 ' FIH, sl sh of gas, swab 2 bbls of fluid

<u>DATE</u>	<u>DESCRIPTION</u>
6-22 Cont'd	L hr, S/O 65% SW. Cont'd to Swab. Lack 10 BLO to rec.
6-23	4820 TD, 4782 PBDT, San Andres (4599-4723) OA. Swab 2 BLO + 17 BSW in 9½ hrs, 300' FIH, sl sh of gas, S/O, 95% wtr. SI 14 hrs. 1000' FIH, made 1 run w/swab, S/O, 60% wtr, 3000' FIH, made 2nd run, S/O, 95% wtr. Cont'd to swab.
6-24	Swab 2 BLO + 17 BSW in 10½ hrs, 50' FIH, Cardinal Chemical Co acidized perforations w/5000 gal 15% stabilized unisol acid using 30 RCN ball sealers. TTP 2500 to 6500 - 2700 CP, pkr rate 4.6 BPM, ISIP 1800, 10 min SIP 1700, Job compl 4:45 p.m. 6-23-66. Fl back 42 BBS fluid in 1½ hrs, then swab 46 BAW in 9½ hrs, L hr swab 2 bbls, S/O 100% AW, 200' FIH. Lack 25 BLO + 32 BAW to rec.
6-30	Lane Wells Co. perf add holes in 4½ csg w/ S.A. at 4623-44-50-65-69, 1 jt sh/interval. Then Lane Wells set Hallib SVDC Ret at 4680 - Setting tool would not shear off Ret - Pulled line out of rope socket Ran BOS on 2" tbg recovered setting tool - Ran stinger on 2" tbg to Ret at 4680. Then Hallib sq perfs 4690-4723 w/75 sx Trinity Inferno Neat - Communicated w/ upper perfs - TP 1200, CP 1300 w/ stringer at 4678. Reversed out 10 sx. Pulled tbg & stinger. SD for night. Prep to run bit to check for cement.
7- 1	4820 TD, 4680 PBDT, S.A. (4599-4669). Ran 3-3/4 bit on 2" tbg to 4678 - Found no cement in hole. Pulled tbg & bit - Ran 2" tbg OE to 4670, Guib KTP pkr @ 4476, Cardinal Chem Co acidized perfs 4599-4669 w/500 gals 15% NE acid, TTP 900-3600, AIR 3.2 B/Min. ISITP 1900, 10 min SITP 1800. Job complete 2:45 p.m. Then Sw 34 BLO + 12 BAW 5 hrs, sl sh gas, Sw dry 1 hr. SI 9 hrs. TP - 0, 50' FIH. Prep to pull tbg & acid frac.
7- 2	Pulled 2" tbg & Guib pkr. Cardinal Chem Co acid fracked S. A. perfs 4599-4669, down 4½ csg w/7500 gals Jack Frac + 7500# 20/40 Ottawa sd + 15 RCN ball sealers, TCP 2100-3100, AIR 11 B/Min, ISICP 2500, 15 min SICP 2400#. SI 21 hrs, CP 730#. Prep to bleed off & C/O. 285 BLO + 180 BAW to rec.
7- 5	Fl 28 BLO 4 hrs, CP 730-0, then ran 2" tbg to 4597, then sw 83 BLO + 132 BAW 46½ hrs, 50' FIH, NS gas, Sw 1 bbl fluid L hr, S/O 90% AW. SI 10 hrs. TP - 0. CP 90#, 500' FIH. 144 BLO + 8 BAW to rec.
7- 6	Swab 5 BLO + 8 BAW + 22 BFW/8hrs. 100' FIH, no gas, swab 2 bbls L hr, S/O 95% FW, SI 14 hrs, TP - 0, CP 130. 800' FIH. Prep to pull tbg, run mud anchor and run rods and pump. Lack 139 BLO to rec.
7- 7	Pull 2-3/8 tbg, reran same, orange peeled to 4675, T perfs 4656-59, SN @ 4655, ran 3/4" rods & 2x1½x16 pump to 4655. Released D&J Well Serv Unit @ 7:00 p.m. 7-6-66. Prep to set pumping unit. Lack 139 BLO to rec.
7- 8	Installing pumping unit. Started pumping load @ 12:00 noon 7-7-66. Correction: 189 BLO to Rec.

<u>DATE</u>	<u>DESCRIPTION</u>
7- 9	Failed to pump. COPD 11:22 PM '66
7-21	MIRU X-Pert Well Ser. DD Unit pulled rods & pump, pull 2-3/8 tbg, ran Howco RTTS pkr on 2-3/8 Tbg to 4318, SD for nite, prep to squeeze SA perfs (4599-4669)
7-22	Install BOP - loaded hole w/fresh water. Howco pumped into San Andres perfs 4599-4669 5.5 BPM @ 1700#. Howco attempted to squeeze perfs w/250 sx TIN cement, washed by perfs w/7 bbls of water, job complete @ 10:00 a.m. 7-21-66. Howco attempted to squeeze perfs w/150 sx TIN, Max Press 2800#, would not hold, pump 7 bbls of water by perfs, job complete 4:30 pm 7-21-66. WOC past 13½ hrs, prep to re-squeeze
7-23	Howco attempted to squeeze perfs w/150 sx TIN cement, TP 2800-10000#, cleared perfs w/4 bbls wtr. Job complete 9:45 a.m. 7-22-66. WOC 6 hrs Howco squeezed perfs w/150 sx TIN cement. TP 2400# holding - pump 2 bbls wtr past pkr, WOC 13 hrs press up to 3000# ok. Prep to pull pkr & drill out.
7-25	Pull RTTS pkr & tbg, ran 3-7/8 bit on 4 - 3-1/8 DC& 2-3/8 tbg. Rigged up Star Tool Co Reverse Unit drill cement stringer from 4476-4602, solid cement 4602-4645 & 4654-75 in 5 hrs, reverse circ 1½ hrs, tested csg 2050#, leaked off to 1675# in 30 min, pull bit, DC's & tbg. Ran RTTS pkr to 4318, press up on back side 1000#, tbg leaked - pulled tbg, prep to test tbg back in hole.
7-26	Ran RTTS pkr on 2-3/8 tbg to 4318, tested tbg to 4000#/ok. Howco attempted to squeeze SA perfs (4599-4669) w/100 sx TIN cement, Max Pressure 5000#, would not hold, displace cement w/4 bbls wtr. Job complete @ 11:45 a.m. 7-25-66. WOC 9 hrs, Howco attempted to squeeze perfs w/100 sx TIN, Max Press 3800#, would not hold, displace cement w/4 bbls wtr. Job complete 10:30 p.m. 7-25-66.
7-27	Pumped fresh wtr into perfs @ 1 BP, @ 5000#, Howco squeezed perfs w/150 sx Incor Neat cement containing .06 of Halad 9, pumped 2 bbls past pkr - TP 6000# SI - TP 2500#, SI 18 hrs - TP 1000#, pulling pkr - prep to drill out.
7-28	Finish pulling tbg & pkr, ran 3-7/8 bit, csg scraper on 4-3/8 DC & 2-3/8 tbg, drill cement from 4357-4680, tested 2000#/ok, then drill ret 4680-82 & cement to 4724, tested csg w/2000# 30 min. SD for night.
7-29	Displace wtr w/lease oil, pull tbg, DC's, & bit, Lane Wells perf 4½ csg in the San Andres @ 4693, 95, 97, 4704, 19, 21, & 23 w/1 JSPE, total of 7 holes, ran 2-3/8 tbg to 4714 w/ Guib KTP pkr @ 4675, swab 18 BLO/ 2 hrs, swab dry/2 hrs. SD for night. Prep to acidize w/1000 gal.
7-30	Swab dry 3 add'l hrs, Cardinal Chemical Co acidized perfs 4693-4723 w/ 1000 gal stabilized 15% Unisol acid, TTP 1500-1000#, rate ½ BP, ISIP 1450#, 15 min SIP 1300#. Job complete 11:45 A.M. 7-29-66. Swab 18 BLO + 11 BAW/4 hrs, Swab dry/2hrs. SI 12 hrs, TP - 0, 600' FIH, S/O 100% SW. Lack 1 BAW to rec.

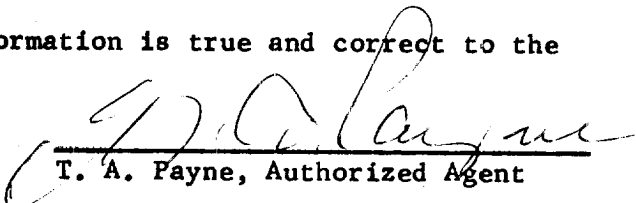
<u>DATE</u>	<u>DESCRIPTION</u>
8- 1	Swab 1 BLO + 1 BAW + 20 BSW/12 hrs, 100-50' FIH, ¹⁹⁶⁶ S/O, 100% SW. SI 12 Hrs, TP-0, 1200' FIH, Swab 15 BSW, Tr of oil/8 hrs, 100' FIH, SI 17 hrs.
8- 2	Pull 2-3/8 tbg and Guiberson pkr, remove 1 jt tail pipe, reran tbg & pkr, set pkr @ 4675, SD for nite, prep to SOF.
8- 3	Cardinal Chemical Co. SOF perfs down 2-3/8 tbg w/5000 gals. El Paso refined oil + 10,000# 20/40 Ottawa sand TTP 5700#, rate 3.8 BPM, ISIP 2800#, 10 min SIP 1000#, job complete @ 10:30 a.m. 8-2-66, SI 19½ hrs, TP 800#, prep to pull tbg & pkr, CO sand & put well on pump w/140 BLO to rec.
8- 4	F1 20 BLO in 1 hr, died, pulled 2-3/8 tbg & pkr, ran SP, CO sand from 4760-82 PBTD in 3 hrs, ran 2-3/8 tbg to 4740, T. Perfs 4723-26, SN 4719 int. well head, SD for nite, prep to put on pump
8- 5	Ran rods & pump to 4719, put well to pumping @ 11:00 a.m. 8-4-66. Released X-Pert Well Serv. DD Unit @ 12:30 pm 8-4-66. Lack 182 BLO to rec.
8- 6	P 1 BLO - pulled rods & pump, swab 54 BLO + 10 BSW/8 hrs. SI 12 hrs. 800' FIH.
8- 9	P 1 BLO + 11 BSW/12 hrs. Cont'd to P. Lack 232 BLO to rec.
9 -1	P no oil + 12 BSW in 18 hrs. <u>Temp. P&A, FINAL REPORT.</u>

MOBIL OIL CORPORATION
Jacobs Federal #13
Deviation Survey Record

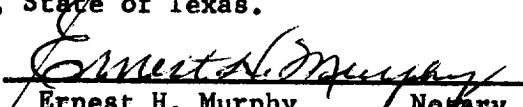
SEP 14 1966

<u>Date</u>	<u>Type</u>	<u>Depth</u>	<u>Degrees Off Vertical</u>
6-7-66		100	1/4
6-8-66		375	1/4
6-9-66		564	3/4
6-9-66		864	3/4
6-9-66		1319	3/4
6-9-66		1835	1
6-9-66		2189	1
6-10-66		2655	1-1/4
6-10-66		2940	1-1/4
6-10-66		3385	1-1/4
6-11-66		3842	1
6-12-66		4114	1
6-13-66		4331	1
6-14-66		4497	3/4
6-16-66		4820	1/2

I hereby certify that the above information is true and correct to the best of my knowledge and belief.


T. A. Payne, Authorized Agent

Suscribed and sworn to before me this 14th day of September 1966,
Notary Public in and for Midland County, State of Texas.


Ernest H. Murphy, Notary Public
in and for Midland County, Texas

My Commission Expires June 1, 1967.

ERNEST H. MURPHY, Notary Public
in and for Midland County, Texas